

ANNUAL REPORT
TO THE
RURAL DISTRICT COUNCIL
OF
GLANFORD BRIGG,
FOR THE
YEAR ENDING DECEMBER 31ST, 1908,
BY
GODFREY GOODMAN,
MEDICAL OFFICER OF HEALTH.

BRIGG :
J. ASHTON & SONS, PRINTERS, WRAWBY STREET.

TO THE

CHAIRMAN AND MEMBERS

OF THE

RURAL DISTRICT COUNCIL

OF THE

GLANFORD BRIGG UNION.

—:—

FEBRUARY, 1909.

LADIES AND GENTLEMEN,

I beg to present my Report for the year ending December 31st, 1908.

The number of births registered during the year in the whole District was 764; males 377, females 387. The total is 59 above that of last year. It is 37 in excess of the previous record.

The birth-rate was 31·6 per 1,000 population. The average for the last ten years is 28·2.

The births were distributed as follows:—

	<i>Males</i>		<i>Females</i>		<i>Total</i>
Brigg Sub-District ...	104	....	102	....	206
Barton Sub-District ...	98	....	103	....	201
Winterton Sub-District	175	...	182	....	357
	<u>377</u>		<u>387</u>		<u>764</u>

Compared with last year we find an increase of 16 in the Brigg Sub-District, a decrease of 8 in the Barton Sub-District, and an increase of 51 in the Winterton Sub-District. .

THE BIRTH-RATE IN THE SUB-DISTRICTS :—

Brigg Sub-District	....	...	26.6 per 1,000
Barton Sub-District	....	....	23.4 per 1,000
Winterton Sub-District	....	....	45.1 per 1,000

The Winterton Sub-District as usual has the highest birth-rate.

The following table contains a classification of the Births in the whole and each of the Sub-Districts for the last ten years.

	BRIGG SUB-DISTRICT.			BARTON SUB-DISTRICT.			WINTERTON SUB-DISTRICT.			WHOLE DISTRICT.		
	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total
1899	104	100	204	130	115	245	114	99	213	348	314	662
1900	99	92	191	113	100	213	113	100	213	325	292	617
1901	97	97	194	121	101	222	121	102	223	339	300	639
1902	136	103	239	110	116	226	126	91	217	372	310	682
1903	100	86	186	104	104	208	136	114	250	340	304	644
1904	103	110	213	96	91	187	139	138	277	338	339	677
1905	112	115	227	88	99	187	136	138	274	336	352	688
1906	107	95	202	103	111	214	160	151	311	370	357	727
1907	110	80	190	117	92	209	153	153	306	380	325	705
1908	104	102	206	98	103	201	175	182	357	377	387	764
	1072	980	2052	1080	1032	2112	1373	1268	2641	3525	3280	6805

The number of deaths registered in the whole District during the year was 337; males 168, females 169. The total is 20 above that of last year. Deaths

The death-rate was 13.9 per 1,000. The ten year average for the District is 13.8. Death-rate

The deaths were distributed as follows :—

		Males	Females	Total
Brigg Sub-District	....	56	40	96
Barton Sub-District	....	54	63	117
Winterton Sub-District	....	58	66	124
		168	169	337

DEATH-RATE IN SUB-DISTRICTS :—

Brigg Sub-District	....	....	12·4 per 1,000
Barton Sub-District	....	....	13·7 per 1,000
Winterton Sub-District	....	....	15·6 per 1,000

The following table contains a classification of the deaths in the whole and each of the Sub-Districts for the last ten years.

	BRIGG SUB-DISTRICT.			BARTON SUB-DISTRICT.			WINTERTON SUB-DISTRICT.			WHOLE DISTRICT.		
	<i>M.</i>	<i>F.</i>	<i>Total</i>	<i>M.</i>	<i>F.</i>	<i>Total</i>	<i>M.</i>	<i>F.</i>	<i>Total</i>	<i>M.</i>	<i>F.</i>	<i>Total</i>
1899	46	45	91	67	49	116	42	50	92	155	144	299
1900	61	66	127	57	74	131	70	55	125	188	195	383
1901	41	55	96	57	54	111	49	51	100	147	160	307
1902	57	44	101	57	65	122	50	58	108	164	167	331
1903	45	43	88	60	59	119	52	44	96	157	146	303
1904	57	50	107	50	53	103	54	49	103	161	152	313
1905	50	50	100	52	57	109	58	64	122	160	171	331
1906	41	42	83	67	55	122	59	56	115	167	153	320
1907	47	48	95	55	46	101	64	57	121	166	151	317
1908	56	40	96	54	63	117	58	66	124	168	169	337
	501	483	984	576	575	1151	556	550	1106	1633	1608	3241

Deaths in children under one year.

The number of deaths in children under one year was 76; males 37, females 39. Contrary to the general rule the female deaths were in the majority. The figures for last year were, total deaths 67; males 46, females 21.

The deaths were distributed as follows :

	<i>Males</i>	<i>Females</i>	<i>Total</i>
Brigg Sub-District	.... 12	.... 8	.... 20
Barton Sub-District	.... 6	.... 12	.... 18
Winterton Sub-District	.... 19	.... 19	.... 38
	37	39	76

Particulars as to the cause of these deaths and other information will be found in table V. at the end of the Report. Under the heading Other Causes, is included one female, aged 9 months, cause of death, criminal neglect, (coroner's certificate).

The infant death-rate was 99 per 1,000 births. This is the highest for the last four years. The average for the District is 77 per 1,000. Infant
Death-rate

Diseases under the Notification Act.

The number of cases notified under the Infectious Diseases Notification Act was 175, made up as follows:

Scarlet Fever	....	....	....	114
Diphtheria	....	....	....	35
Erysipelas	....	....	....	16
Enteric Fever	....	....	....	9
Puerperal Fever	....	....	....	1
				175

The total is 57 above that of last year.

The number of Scarlet Fever cases (114) is the highest since 1903. The outbreaks were of a mild type and the mortality very low. Only one death was recorded. The majority of the cases (59) occurred in the Brigg Sub-District. Of these 32 were in the parish of Worlaby, and 14 in Barnetby. In both villages the schools were closed for four weeks. The result in each case was most satisfactory. Scarlet
Fever

My attention was first called to this outbreak on February 10th, by the schoolmaster, Mr. Lowe. He informed me that several children were absent from school, reported suffering from Influenza. One of these who had returned to school that morning, was found to be peeling. Suspecting the case to be Scarlet Fever, the child was sent home. Furnished with a list of absent children, I first visited the home of the peeling child. Here I found six children suffering from Scarlet Fever, in different stages of the disease. I visited every house in the village where children were reported to be ill. I also examined those at school. In all I found 15 well-marked cases besides others who were evidently incubating the disease. I gave directions as to isolation and disinfection, and advised that the schools be closed at once for four weeks. On the following day I again visited each house and left printed directions. Hearing indirectly that certain infected children were allowed out in the streets, I reported the matter to the clerk, Mr. F. C. Hett. Letters of Outbreak of
Scarlet Fever
at Worlaby

warning were at once sent to the parents. The closing of the schools and other measures taken to prevent the disease spreading were attended with excellent results. In less than a week the notification of cases ceased.

In the Barton Sub-District 12 cases occurred, most of these were at New Holland.

In the Winterton Sub-District there were 43 cases. Of these 19 were in Ashby. They were spread over a period of seven months. On three distinct occasions fresh infection was introduced from outside the District. The remaining cases were scattered over different parts of this District.

Diphtheria.

The number of Diphtheria cases notified was 35. The deaths from this disease were 8. This is a very high mortality. The figures for last year were, cases 35, deaths 4.

In the Brigg Sub-District there were 20 cases and 3 deaths. Of these cases 11 were in Kirton and 4 in Barnetby. The Kirton cases were extremely mild in type. Of the three deaths one occurred at Barnetby, one at Hibaldstow, and one at Wrawby.

In the Barton Sub-District there were 3 cases and 1 death.

In the Winterton Sub-District there were 12 cases and 4 deaths. Of these, 9 cases and 3 deaths occurred at Burringham.

The first case was notified on August 3rd, and the last on August 25th. The number of cases notified was 9, and the deaths 3. This is a very high mortality. The ages of the fatal cases were 2, 5 and 19 years. The first two (brother and sister) were delicate children. The last a young man, who, report says, treated his case lightly, believing it to be nothing more than an ordinary sore throat. He died suddenly of heart failure.

Outbreak of
Diphtheria at
Burringham

The children from Burringham attend a school situated in the parish of Brumby, outside the Brigg Rural District. Diphtheria broke out in this school a short time before the Burringham outbreak. The first cases at Burringham were in children attending this school. Previous to this there had been no case of Diphtheria in Burringham

for eight months. I carefully examined the premises in every case where Diphtheria occurred. Some of the drains were found to be defective and orders were at once given to have them set right. Some of the houses were damp, old and in bad repair. This village is on the banks of the River Trent and at high tides is below its level. None of the houses had damp proof floors. The village as a whole is well drained, much having been done in recent years. An additional sewer connecting two existing sewers has since been laid down, also an arrangement has been made for flushing the sewers from the river at high water. During the outbreak disinfectants were supplied and the houses were afterwards disinfected. No further cases of Diphtheria were reported.

Erysipelas.

There were 16 cases of Erysipelas with one death, an infant three weeks old.

Enteric Fever.

The number of cases of Typhoid Fever notified was 9.

There was no death from this disease. The figures for last year were cases 5, deaths 3.

The cases were divided as follows :—

Brigg Sub-District ....	....	2
Barton Sub-District ....	....	2
Winterton Sub-District ....	....	5
		<hr/>
		9

The cases in the Brigg and Barton Sub-Districts presented no unusual features, they were dealt with in the ordinary manner. Those in the Winterton Sub-District on the contrary required special attention and special measures.

Winterton Sub-District. Three cases of Typhoid Fever occurred at Appleby, The notification reached me on October 24th, October 25th and November 11th. The second case was that of a man engaged in milking at a farm which milk in large quantities was sent to market. A few houses in the village were also supplied with this milk. The doctor in attendance reported that this man was

Enteric at
Appleby

in an advanced stage of the disease when he ceased work, and that in his opinion, the first case, a child aged six, was due to infected milk. On Monday, October 26th, in company with Mr. Bainton, the Inspector, I visited and inspected the premises of this milkman. The drains appeared to be properly trapped but both ran quite close to the well. I took a sample of water from this well, which, subjected to a rough analysis showed marked traces of organic pollution. I advised that the drains be taken up and examined as they were very probably leaking into the well. I visited case No. 1 but all the sanitary arrangements were excellent. After full enquiry into the history of the case, I failed to find the smallest evidence to support the suggestion that the infection was carried by the milk. In company with the owner and Inspector I made a thorough inspection of the yards, cow stables, receiving rooms, etc. Everything connected with the milk business I found up-to-date and in first-class sanitary condition. There was certainly nothing on these premises likely to originate Typhoid Fever.

On November 11th, a third case was notified next door but one to case No. 2. This house received its milk from a different source. It is probable that this case originated from the same source as No. 2. The wells have been closed and steps are being taken to obtain a pure supply of water. In the meantime the water is procured from a neighbouring well.

On November 11th, Typhoid Fever broke out in a family at East Butterwick, where, owing to want of accommodation it was impossible to isolate the patient. I reported the matter to the Council. A vacant house in the neighbourhood was at once taken and a trained nurse engaged. Furniture was provided and patient and nurse were comfortably settled in this temporary isolation hospital by November 14th. On November 19th a second case occurred in this family, a boy aged six. This case was also removed to the isolation hospital and on the 20th a second nurse was engaged. At the end of the year both nurses were still in attendance.

Enteric at
East
Butterwick

Both patients recovered and the nurses were discharged, one on January 2nd and the other on January 9th, 1909.

Puerperal Fever.

There was one case of Puerperal Fever which was fatal.

TABLE OF DISEASES NOTIFIED WITH DEATHS FOR THE LAST
TEN YEARS.

	Scarlet Fever		Diphtheria		Typhoid Fever		Erysipelas		Puerperal Fever		Small Pox	
	<i>Cases</i>	<i>Deaths</i>	<i>C.</i>	<i>D.</i>	<i>C.</i>	<i>D.</i>	<i>C.</i>	<i>D.</i>	<i>C.</i>	<i>D.</i>	<i>C.</i>	<i>D.</i>
1899	77	4	18	3	12	0	16	....	4	....	4	....
1900	73	5	24	6	10	1	11	....	1	....	10	2
1901	110	5	50	3	22	5	11	....	2	2	....	....
1902	146	3	9	3	10	1	17	....	1	....	....	....
1903	183	4	57	5	24	....	13	....	2	1	....	....
1904	93	1	57	3	4	....	14	1	1	....	....	....
1905	61	5	61	5	27	2	9	....	4	....	....	....
1906	30	2	29	4	18	2	14	....	3	2	....	....
1907	64	1	35	4	5	3	10	0	4	1	....	....
1908	114	1	35	8	9	0	16	1	1	1	....	....
	951	31	375	44	141	14	131	2	23	7	14	2

Measles.

During the year Measles were less prevalent in the District than usual. The most extensive outbreak was at Scawby, where, on December 1st, the schools were closed for four weeks. This period included the Christmas holidays. There was only one death from this disease.

Whooping Cough.

There was little Whooping Cough and no deaths among children attending school. In February, I advised the closing of the infant school, at New Holland, owing to an outbreak. There were 5 deaths from this disease, 3 in children under one year, and 2 under two years. One death was in the Barton Sub-District, and four in the Winterton Sub-District. Last year there were 11 deaths, 5 under one year.

Phthisis.

The number of deaths from Phthisis was 26; males 10, females



16. They were divided as follows:

		<i>Males</i>		<i>Females</i>		<i>Total</i>
Brigg Sub-District	....	3	....	1	....	4
Barton Sub-District	....	3	....	8	....	11
Winterton Sub-District	....	4	....	7	....	11
		<hr/>		<hr/>		<hr/>
		10		16		26

Last year the deaths were 22; males 9, females 13.

Cancer.

There were 26 deaths from Cancer, males 13, females 13.

The figures for last year were deaths 20; males 9, females 11.

		<i>Males</i>		<i>Females</i>		<i>Total.</i>
Brigg Sub-District	....	5	....	3	....	8
Barton Sub-District	....	4	....	6	....	10
Winterton Sub-District	....	4	....	4	....	8
		<hr/>		<hr/>		<hr/>
		13		13		26

SUMMARY OF WORK DONE BY INSPECTOR DURING 1908.

Public sewers improved	....	....	20
Private drains improved	....	....	60
Private water supplies	....	....	6
Public water supplies ....	....	....	1
Piggeries improved	....	....	10
Other nuisances	....	....	44
Plans allowed	....	....	62
Water certificates granted for 236 houses	....	....	65
Cowkeepers registered ....	....	....	16
Cowkeepers' premises inspected ....	....	....	19
General inspections	....	....	50
Clerk's notices served ....	....	....	90
Petroleum and Carbide Licenses granted	....	....	7
New streets completed	....	....	7
Yards improved	....	....	6
Summonses (convictions in both cases)	....	....	2
Breach of Byelaws (all remedied)	....	....	4
Plans disallowed (representing 30 houses)	....	....	2
Privies improved	....	....	17

PUBLIC SEWERS LAID.

Winteringham completion, 220 yards—12in., 200 yards—9in.

Barrow Top Road, 160 yards—9in.

East Halton, 15 yards—6in.

Bonby, 70 yards—6in.

Elsham, 25 yards—9in., 60 yards—6in.

Ashby, 80 yards—12in. and in Oxford Street, 120 yards—9in.

House Accommodation of the Working Classes.

Building is rapidly going on in the District, especially at Ashby and Crosby, villages in the neighbourhood of the iron industry, and at South Killingholme where three large oil and manure factories have been erected. Water certificates were granted in the case of 236 new houses.

Sewage and Drainage.

A number of new sewers have been laid down and old ones improved, (see summary of work done by Inspector). The sewage disposal works at Ashby have been improved and are about to be extended to meet the requirements of the rapidly increasing population. The subject of sewage disposal at Crosby is a difficult one and a joint committee of the Brigg Rural and Scunthorpe Urban Councils are engaged in arranging a joint scheme of sewage disposal.

Disposal of Excrement.

Throughout the District the box system has almost entirely replaced the old ash pits. Most of the large villages have a regular system of night soil collection.

Water Supply of District.

The Water Supply of the District is generally ample and of good quality. The exception being the villages of Burringham and Butterwick on the banks of the River Trent where good spring water cannot be obtained. Here the majority of the inhabitants drink rain water, some however, prefer to drink the water from the River Trent.

Bye laws.

The Council are applying for an extension of the building bye laws to certain places where extensive building is likely to be commenced in the near future.

Nuisances.

One of the most serious nuisances dealt with during the year was that arising from oil and manure works recently erected on the banks of the lower Humber in the parish of South Killingholme. Oil is extracted from the livers of fish, the remainder reduced to a dry powder is used as a manure. The fish reaches the works (by water) in various stages of decomposition. When the quantity was more than the works could accommodate the excess remained (sometimes for weeks) outside the buildings exposed to all weathers, this gave rise to a smell which caused more than local interest. On April 3rd, in company with the Inspector, I visited these works and reported the result of my inspection to the Council. The Council took energetic steps to abate the nuisance. I visited three or four times afterwards and on each occasion found a greatly improved state of affairs. The Companies are doing all they possibly can to reduce the nuisance to the smallest degree.

General Inspections.

Alone or in company with the Inspector, I made special inspections in various parts of the District.

The table of rainfall as on former occasions, has kindly been given to me by Mr. Alfred Atkinson, C.E., of Brigg.

I am, Gentlemen,

Your obedient Servant,

GODFREY GOODMAN,

*Medical Officer of Health to the
Rural District Council.*

Table I.—For Whole District.

Year.	Population estimated to middle of each year.	Births.		Deaths under 1 year of age.		Deaths at all ages. Total	
		Number.	Rate.*	Number.	Rate per 1,000 Births Registered.	Number.	Rate *
1898	23823	706	29·6	101	142	392	16·4
1899	...	662	27·7	93	140	399	12·5
1890	...	613	25·9	79	128	383	16·0
1901	...	639	26·6	72	113	307	12·9
1902	...	682	28·6	83	122	331	13·9
1903	...	644	27·0	73	112	303	12·7
1904	...	677	28·0	79	117	313	13·1
1905	23830	688	28·8	63	90	331	13·9
1906	23890	727	30·0	64	88	320	13·4
1907	23910	705	29·5	67	95	317	13·2
Averages for years 1898-1907	23839	674	28·2	77	114	339	13·8
1908	24200	764	31·6	76	99	337	13·9

*Rates calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) 124,157 acres.

At census of 1901—Total population at all ages 23,823.

Number of inhabited houses 5,548.

Average number of persons per house 4·3.

Table II.

Names of Localities	The whole District				Brigg Sub-District				Barton Sub-District				Winterton Sub-District			
	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under one year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under one year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under one year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under one year
1898	23823	706	392	101	...	...	...	...	...	...	...	...	...	...	...	...
1899	...	662	299	93	...	...	...	...	...	...	...	...	...	...	...	...
1900	...	613	383	79	7728	191	127	21	8568	213	131	20	7525	213	125	38
1901	...	639	307	72	...	194	96	26	...	222	111	27	...	223	100	19
1902	...	682	331	83	...	239	101	22	...	226	122	30	...	217	108	31
1903	...	644	303	73	...	180	88	18	...	208	119	23	...	250	96	32
1904	...	677	313	79	...	213	107	23	...	187	103	22	7528	227	103	34
1905	23830	688	331	63	...	227	100	17	...	187	109	12	7529	274	122	34
1906	23890	727	320	64	...	202	83	13	...	214	122	21	7594	311	115	30
1907	23910	705	317	67	...	190	95	18	...	209	101	19	7614	311	121	30
Averages for years 1898-1907	23840	674	339	77	7728	204	101	20	8568	208	110	22	7546	253	112	31
1908	24200	764	337	76	7728	206	96	18	8568	201	117	18	7904	357	124	38

Deaths occurring outside the division or district among persons belonging thereto } Not ascertained. Have no means of
Deaths occurring within the district among persons not belonging thereto ... } obtaining accurate returns.

There is no Public Institution in the District. The Union Workhouse is in the Urban District of Brigg.

Table III.—Cases of Infectious Disease notified during the year 1908.

Notifiable Disease.	Cases notified in whole district.							Total cases notified in each locality.			No. of cases removed to hospital from each locality.
	At all ages.	Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards	Brigg Sub-District	Barton Sub-District	Winterton Sub-District	
Small-pox	Winterton Sub-District
Cholera	...	...	...	...	...	...	...	...	...	...
Diphtheria including Membranous croup	35	...	7	25	2	1	...	20	4	11	
Erysipelas	16	...	...	2	...	11	2	7	6	3
Scarlet fever	114	2	24	79	3	6	...	59	12	43	
Typhus fever	...	...	...	...	...	...	...	...	...	...
Enteric fever	9	...	...	4	2	3	...	2	2	5
Relapsing fever	...	...	...	...	...	...	...	...	...	...
Continued fever	...	...	...	...	...	...	...	...	...	...
Puerperal fever	1	...	...	...	...	1	...	...	...	1
Plague	...	...	...	...	...	...	...	...	...	...
Totals	175	3	31	110	7	22	2	88	24	63	

Isolation Hospital near Goxhill.

Table IV.
Causes of, and ages at death during year 1908.

Causes of Deaths.	Deaths in whole district at subjoined ages.						
	At all ages	Under 1	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards
Small-pox ... ..	...	...	...	...	...	...	...
Measles	1	...	1	...	...	...	...
Scarlet fever	1	...	...	1	...	...	...
Whooping cough	5	3	2	...	...	...	...
Diphtheria and mem- braneous croup	8	...	5	2	1	...	...
Croup ... ..	...	...	...	...	...	...	...
Fever { Typhus ... ..	...	...	...	...	...	...	...
Enteric ... ..	...	...	...	...	...	...	...
Other continued ... ..	...	...	...	...	...	...	...
Epidemic Influenza	10	...	...	3	...	3	4
Cholera ... ..	...	...	...	...	...	...	...
Plague ... ..	...	...	...	...	...	...	...
Diarrhœa	1	1	...	...	...	...	...
Enteritis	10	8	1	...	...	...	1
Puerperal fever	1	...	...	...	...	1	...
Erysipelas	1	1	...	...	...	...	...
Other septic diseases ... ..	...	...	...	...	...	...	...
Phthisis	26	...	3	6	3	12	2
Other tubercular disease	3	2	...	...	...	1	...
Cancer, malignant disease	26	...	...	...	...	9	17
Bronchitis	17	2	1	...	...	4	10
Pneumonia	21	11	3	...	...	6	1
Pleurisy ... ..	...	...	...	...	...	...	...
Other diseases of respi- ratory organs ... ..	...	...	...	...	...	...	...
Alcoholism ... ..	...	...	...	...	...	...	...
Cirrhosis of liver	1	...	...	...	...	...	1
Venereal diseases ... ..	...	...	...	...	...	...	...
Premature birth	18	18	...	...	...	...	...
Diseases and accidents of parturition ... ..	...	...	...	...	...	...	...
Heart diseases	38	1	...	...	...	15	22
Accidents	3	...	1	...	...	2	...
Suicides	2	...	...	...	...	2	...
Old Age ... ..	...	...	...	...	...	...	...
All other causes	144	29	...	3	5	25	82
All causes	337	76	17	15	9	80	140

Table V.—Infantile Mortality during the year 1908.
Deaths from stated causes in weeks and months under one year of age.

Cause of Death		Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 1 month	1-2 months	2-3 months	3-4 months	4-5 months	5-6 months	6-7 months	7-8 months	8-9 months	9-10 months	10-11 months	11-12 months	Total deaths under 1 year
All causes	Certified ...	20	...	3	4	27	7	6	6	6	4	2	...	4	7	2	1	72
	Uncertified ...	...	...	1	...	1	...	...	1	...	1	...	...	...	...	...	1	4
Common Infectious Diseases	Small-pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chicken-pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Measles ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Scarlet Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoeal Diseases	Diphtheria: Croup ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Whooping Cough ...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	3
	Diarrhoea, all forms ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Enteritis (<i>not Tuberculous</i>) ...	...	...	...	...	...	2	...	...	3	1	...	...	...	...	1	1	8
Wasting Diseases	Gastritis, Gastro-intestinal Catarrh ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
	Premature Birth ...	15	...	...	1	16	1	1	...	...	...	...	...	...	...	...	...	18
	Congenital Defects ...	1	...	...	...	1	2	...	...	...	1	...	...	1	...	...	...	5
	Injury at Birth ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1
Tuberculous Diseases	Want of Breast-milk ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Atrophy, Debility, Marasmus ...	...	...	1	...	1	...	1	2	1	1	...	...	...	...	...	...	6
	Tuberculous Meningitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tuberculous Peritonitis: Tabes Mesenterica ...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	2
	Other Tuberculous Diseases ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Erysipelas ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1
	Syphilis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rickets ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
	Meningitis (<i>not Tuberculous</i>) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Convulsions ...	4	...	1	1	6	...	...	2	1	...	1	...	1	1	...	...	12
	Bronchitis ...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	2
	Laryngitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pneumonia ...	...	...	...	...	...	1	2	2	...	1	...	...	1	2	1	1	11
	Suffocation, overlaying ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Other causes ...	...	...	2	...	2	...	...	...	...	...	1	...	...	2	...	...	5
Totals ...		20	...	4	4	28	7	6	7	6	5	2	...	4	7	2	2	76

Deaths—Legitimate 70. Illegitimate 6.

Births in the year, legitimate 764, illegitimate not returned. Deaths from all causes at all ages 337.

Population estimated to middle of 1908, 24,100.

RAINFALL, 1908.

Month.	At Brigg		At Ferriby Sluice	
	Inches	Days	Inches	Days
January	1·28	16	1·22	17
February	2·19	17	1·91	17
March	3·02	25	2·46	21
April	2·64	19	2·51	17
May	1·59	15	1·68	15
June	1·19	13	0·77	8
July	3·55	17	2·69	17
August	2·58	17	1·97	16
September... ..	1·69	23	1·63	15
October	1·09	18	0·91	10
November	1·29	17	1·04	13
December	1·74	25	1·63	20
Total	23·85	222	20·42	186

